



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re US Patent Application of:	)	
Ronald D. Blum et al.	)	
Application No.: 10/626,973	)	Group Art Unit: 2873
Filing Date: July 25, 2003	)	Examiner: Unassigned
Title: SYSTEM, APPARATUS AND	. )	
METHOD FOR CORRECTING	)	
VISION USING AN ELECTRO-	)	
ACTIVE LENS	)	

# **CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8**

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on: February 11, 2004

Date

Gail W. O'Brien

Documents being submitted with this Certification of Mailing under 1.8 are:

- Information Disclosure Statement Transmittal Letter
- Information Disclosure Statement, PTO-1449 and applicable references
- Self-Addressed Stamped Return Postcard

Hunton & Williams Riverfront Plaza, East Tower 951 East Byrd Street Richmond, VA 23219-4074 (804) 788-8200 (Telephone) (804) 788-8218 (Facsimile)



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D. BLU	JM et al.	) Group Art Unit: 2873					
ation Nu	umber: 10/626,973	Examiner: Unassigned					
July 25,	2003	) )					
METH VISIO	OD FOR CORRECTING N USING AN ELECTRO-	) ) )					
		ISCLOSURE STATEMENT IITTAL LETTER					
ox 1450							
Enclos	ed is an Information Disclosure S	Statement, accompanying form PTO-1449, and copies of					
ices in c	onnection with the above-identifie	d patent application.					
[X]	No additional fee for submission	of an IDS is required.					
[]	The fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) is also enclosed.						
[]	A certification under 37 C.F.R. §	§1.97(e) is also enclosed.					
[]	A certification under 37 C.F.R. §	§1.97(e), a petition requesting consideration					
	of the information disclosure sta	tement, and the petition fee of \$130.00					
	as set forth in 37 C.F.R. §1.17(i)	are also enclosed.					
[]	Charge \$ to Deposit Ac	count No. 08-3436 for the fee due.					
[X]	A Mail Certificate Under 37 C.F	P.R. §1.8.					
	ation Nu July 25, SYSTI METH VISIO ACTIV  issioner ox 1450 ndria, VA  Enclose ices in co  [ X ]  [ ]  [ ]	issioner for Patents ox 1450 ndria, VA 22313-1450  Enclosed is an Information Disclosure Seces in connection with the above-identifie  [X] No additional fee for submission  [] The fee of \$180.00 as set forth in  [] A certification under 37 C.F.R. §  of the information disclosure states as set forth in 37 C.F.R. §1.17(i)  [] Charge \$ to Deposit Ac					

## [X] A self-addressed stamped return postcard.

The Commissioner is hereby authorized to charge any appropriate fees that may be required by this paper to Deposit Account No. 08-3436.

Date: February 11, 2004

Respectfully submitted,

HUNTON & WILLIAMS Riverfront Plaza, East Tower 951 East Byrd Street

Richmond, VA 23219 Tel: (804) 788-8516 Fax: (804) 343-4666 Shawn K. Leppo

Registration No. 50,311



Attorney Docket No. <u>63049.001003</u> Customer No. <u>27682</u>

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Ronald D. I	Blum et al.	)	
Application	No.: 10/626,973	)	Group Art Unit: 2873
Filing Date:	July 25, 2003	)	Examiner: Unassigned
	STEM, APPARATUS AND	)	
	THOD FOR CORRECTING SION USING AN ELECTRO-	)	
AC	TIVE LENS	)	

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached hereto is a duly completed Form PTO-1449 listing references which may be considered either material or helpful to the examination of the above-identified patent application. Pages 1-7 of Form PTO-1449 list references which were submitted in the priority applications and consequently duplicate copies of these references are not attached hereto. Copies of the references found on pages 8-10 and not previously of record are enclosed for the Examiner's review. It is requested that all these references be considered by the Examiner and officially made of record.

Respectfully submitted,

Shawn K

Registration No. 50,311

**Hunton & Williams** 

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Date: February 11, 2004

							Sheet 1 of
<b>F&amp;m PTO</b> (Rev. 8-83)	)-1449	U.S. Department Patent and Trace	nt of Commerce lemark Office	Atty. Docket	t No.: 63049.0010	003 Applicatio	n No.: 10/626,973
INFOF		TION DISC FATEMEN					
(	(Use sev	veral sheets if nece	essary)	Applicant: F	Ronald D. Blum e	t al.	
				Filing Date:	July 25, 2003	Group: 28	773
			U.S. PA	TENT DOC	CUMENTS	L	
Examiner Initial*		Document Number	Date	Name	Cla	ss Subclass	Filing Date (if appropriate)
	1	Re. 35,691	12/16/97	Theirl et al.			
-	2	D 298,250	10/25/88	Kildall			
	3	D 342,063	12/7/93	Howitt et al.			
	4	D 350,342	9/6/94	Sack		-	
	5	2,437,642	3/9/48	Henroteau			
	6	2,576,581	11/27/51	Edwards			
.,	7	3,161,718	12/15/64	de Luca			
	8	3,245,315	4/12/66	Marks et al.			<del> </del>
	9	3,614,215	10/19/71	Mackta			† · · · · · · · · · · · · · · · · · · ·
	10	3,738,734	6/12/73	Tait et al.			1
	11	4,174,156	11/13/79	Glorieux			
	12	4,181,408	1/1/80	Senders			
	13	4,190,330	2/26/80	Berreman			
Examiner:				Date Consid	ered:	<u>'</u>	

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9	9						Sheet 2 of 1
(Rev. 8-83)	O-1449 )	U.S. Department Patent and Trace	nt of Commerce lemark Office	Atty. Docket No.	: 63049.001003	Application	No.: 10/626,973
INFO		TION DISC FATEMEN'		E			
	(Use se	veral sheets if nece	essary)	Applicant: Ronal	ld D. Blum et al.		
				Filing Date: July	25 , 2003	Group: 287	73
			U.S. P.	ATENT DOCUM	MENTS		
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	14	4,264,154	4/28/81	Peterson			
	15	4,279,474	7/21/81	Belgorod			
	16	4,300,818	11/17/81	Schachar			
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	18	4,395,736	7/26/83	Fraleux			
	19	4,418,990	12/6/83	Gerber			
	20	4,457,585	7/3/84	DuCorday .			
	21	4,466,706	8/21/84	Lamothe, II			
	22	4,529,268	7/16/85	Brown			
	23	4,564,267	1/14/86	Nishimoto			
	24	4,572,616	2/25/86	Kowel et al.			
	25	4,577,928	3/25/86	Brown			
	26	4,601,545	7/22/86	Kern			
	27	4,609,824	9/2/86	Munier et al.			

Robinson et al.

Date Considered:

Okada et al.

28

29

Examiner:

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4,756,605

12/15/87

7/12/88

Form PTC			ent of Commerce	e Atty. Docket No.: 6	3049.001003	Application	She No.: 10/62
INFO	RMA ST	TION DISC FATEMEN	CLOSURE T	Ξ			
				Applicant: Ronald	D. Blum et al.		
				Filing Date: July 2:	5, 2003	Group: 287	'3
			U.S. P.	ATENT DOCUM	TENT DOCUMENTS		
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing (if appro
	30	4,772,094	9/20/88	Sheiman			-
	31	4,795,248	1/3/89	Okada et al.			
	32	4,818,095	4/4/89	Takeuchi			
33		4,836,652	6/6/89	Oishi et al.			
	34	4,880,300	11/14/89	Payner et al.	<u> </u>		
	35	4,904,063	2/27/90	Okada et al.			
	36	4,907,860	3/13/90	Noble			
	37	4,919,520	4/24/90	Okada et al.			
-	38	4,927,241	5/22/90	Kuijk			
	39	4,929,865	5/29/90	Blum			
	40	4,930,884	6/5/90	Tichenor et al.			
	41	4,945,242	7/31/90	Berger et al.			
	42	4,952,788	8/28/90	Berger et al.			
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)-1449	U.S. Department Patent and Trace	nt of Commerce lemark Office	Atty. Docket No.: 6	53049.001003	Application	No.: 10/626,973
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(Use sev	veral sheets if nece	essary)	Applicant: Ronald	D. Blum et al.	l	
			Filing Date: July 2	5, 2003	Group: 287	73
		U.S. PA	TENT DOCUM	ENTS	<u> </u>	
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45	4,968,127	11/6/90	Russell et al.			
46	4,981,342	1/1/91	Fiala			
47	4,991,951	2/12/91	Mizuno et al.			
48	5,015,086	5/14/91	Okaue et al.		1	
49	5,030,882	7/9/91	Solero			
50	5,066,301	11/19/91	Wiley			
51	5,073,021	12/17/91	Marron			
52	5,076,665	12/31/91	Petersen			
53	5,091,801	2/25/92	Ebstein			•
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55	5,130,856	7/14/92	Tichenor et al.			
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57	5,171,266	12/15/92	Wiley et al.			
58	5,182,585	1/26/93	Stoner			
	1		Date Considered:			
	ST (Use see 44 45 46 47 48 49 50 51 52 53 54 55 56 57	Patent and Trace  RMATION DISC  STATEMEN'  (Use several sheets if necessary and the several sheets if	Patent and Trademark Office  RMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)    Document Number	Patent and Trademark Office   RMATION DISCLOSURE   STATEMENT   Applicant: Ronald   Filing Date: July 2	Patent and Trademark Office   RMATION DISCLOSURE   STATEMENT	Patent and Trademark Office   RMATION DISCLOSURE   STATEMENT

	9						Sheet 5 of 1
Form 10 10 (v. 8-83)	O-1449	U.S. Departme Patent and Trace	nt of Commerce demark Office	Atty. Docket No.:	63049.001003	Application	No.: 10/626,973
INFO		TION DISC TATEMEN		,			
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				Applicant; Ronald	i D. Blum et al.		
				Filing Date: July	25, 2003	Group: 287	73
			U.S. PA	TENT DOCUM	IENTS	<u> </u>	<del></del>
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	59	5,184,156	2/2/93	Black et al.			
	60	5,200,859	4/6/93	Payner et al.			
	61	5,208,688	5/4/93	Fergason et al.			
	62	5,229,885	7/20/93	Quaglia			
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	64	5,306,926	4/26/94	Yonemoto			
	65	5,324,930	6/28/94	Jech, Jr.			
	66	5,352,886	10/4/94	Kane			
	67	5,359,444	10/25/94	Piosenka et al.			<u></u>
	68	5,375,006	12/20/94	Haas			<del></del>
-	69	5,382,986	1/17/95	Black et al.			
	70	5,440,357	8/8/95	Quaglia			t .
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	72	5,451,766	9/19/95	Van Berkel			
	73	5,488,439	1/30/96	Weltmann			
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<b>Prm PTC</b> (Rev. 8-83)		U.S. Department Patent and Trace	nt of Commerce lemark Office	e	Atty. Docket No.:	63049.0010	03	Application	on No.: 10/626,973
INFO		TION DISC TATEMEN		E					
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					Applicant: Ronald	d D. Blum et	al.		
					Filing Date: July	25, 2003		Group: 28	373
			U.S. P	AT	ENT DOCUM	ENTS			
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	86	5,980,037	11/9/99	C	Conway				
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		Document Number	Date	Country	Class	Subclass	Translatio	_
	<del>  ,     </del>	100.00/070/2	7/2/09	WIDO			Yes No	<u>-</u>
	1	WO 98/27863	7/2/98	WIPO			Α	
	2	0 154 962 A2	9/18/85	EPO			Х	
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FOREIGN PATENT DOCUMENTS    Document Number				•						
Document Number   Date   Country   Class   Subclass   Translation   Yes   No						Filing	Date: July 25, 2003	Group: 287	/3	
Yes No   3   0 233 104 A1   8/19/87   EPO   (Abstract   Abstract   4   0 237 365 A1   9/16/87   EPO   (Abstract   5   1-237610   9/22/89   Japan   (Abstract   5   1-237610   9/22/89   Japan   (Abstract   6   2169417A   7/09/86   UK   X   X     7   2170613A   8/6/86   UK   X   X   8   8   55-076323   6/9/80   Japan   (Abstract   1   "Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowel et al., Applied Optics, Vol. 23, No. 2, January 15, 1984, pp. 278-289   2   "Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., Review of Optometry, September 15, 1997, pp. 80-88   3   "The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., Journal of the American Optometric Association, April 1996, pp. 204-208   4   Eyecare Business, October 1997 (entire issue)   5   "Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999   6   "Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999   "Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., Optometry and Vision Science, Vol. 74, No. 7, July 1997   8   "Electronic Spectacles for the 21st Century", Indiana Journal of Optometry, Vol. 2, No. 1, 1999   "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999   "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999   "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999   "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999   "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indi		•		]	FORE	IGN	PATENT DOCUM	IENTS		
4 0 237 365 A1 9/16/87 EPO (Abstract 5 1-237610 9/22/89 Japan (Abstract 6 2169417A 7/09/86 UK X 7 2170613A 8/6/86 UK X 8 55-076323 6/9/80 Japan (Abstract)  Examiner Initial*  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  1 "Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowel et al., Applied Optics, Vol. 23, No. 2, January 15, 1984, pp. 278-289 2 "Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., Review of Optometry, September 15, 1997, pp. 80-88 3 "The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., Journal of the American Optometric Association, April 1996, pp. 204-208 4 Eyecare Business, October 1997 (entire issue)  5 "Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999 6 "Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999 7 "Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., Optometry and Vision Science, Vol. 74, No. 7, July 1997 8 "Electronic Spectacles for the 21st Century", Indiana Journal of Optometry, Vol. 2, No. 1, 1999 9 "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999			Doo	cument Number	Da	te	Country	Class	Subclass	Translation Yes No
5 1-237610 9/22/89 Japan (Abstract) 6 2169417A 7/09/86 UK X 7 2170613A 8/6/86 UK X 8 55-076323 6/9/80 Japan (Abstract)  Examiner Initial*  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  1 "Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowel et al., Applied Optics, Vol. 23, No. 2, January 15, 1984, pp. 278-289 2 "Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., Review of Optometry, September 15, 1997, pp. 80-88 3 "The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., Journal of the American Optometric Association, April 1996, pp. 204-208 4 Eyecare Business, October 1997 (entire issue)  5 "Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999 6 "Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999 7 "Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., Optometry and Vision Science, Vol. 74, No. 7, July 1997 8 "Electronic Spectacles for the 21st Century", Indiana Journal of Optometry, Vol. 2, No. 1, 1999 9 "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999		3	0 2	33 104 A1	8/19/8	7	EPO			(Abstract)
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Examiner Initial*  OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  1 "Focusing by Electrical Modulation of Refraction in a Liquid Crystal Cell"; Stephen T. Kowel et al., Applied Optics, Vol. 23, No. 2, January 15, 1984, pp. 278-289  2 "Computer Vision Syndrome - The Eyestrain Epidemic"; Robert A. Davis, O.D., Review of Optometry, September 15, 1997, pp. 80-88  3 "The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer"; Stuart M. Lazarus, O.D., Journal of the American Optometric Association, April 1996, pp. 204-208  4 Eyecare Business, October 1997 (entire issue)  5 "Vision Through a Liquid-Crystal Spatial Light Modulator"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999  6 "Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes"; Larry N. Thibos et al., Inpress, Adaptive Optics Conference, Durham, United Kingdom, 1999  7 "Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye"; Larry N. Thibos et al., Optometry and Vision Science, Vol. 74, No. 7, July 1997  8 "Electronic Spectacles for the 21st Century", Indiana Journal of Optometry, Vol. 2, No. 1, 1999  "Profile: Larry N. Thibos, Ph.D. and Donald Miller, Ph.D.", Indiana Journal of Optometry, Vol. 2, No. 1, pp. 10, 1999		6	216	59417A 7/09/86		6	UK			Х
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U.S. Department of Commerce Patent and Trademark Office

Atty. Docket No.: 63049.001003

Application No.: 10/626,973

# INFORMATION DISCLOSURE **STATEMENT**

(Use several sheets if necessary)

Applicant: Ronald D. Blum et al.

Filing Date: July 25, 2003

Group: 2873

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